	Application No.	Applicant(s)
Notice of Allowability	09/892,558	BINNARD, MICHAEL
Notice of Allowability	Examiner	Art Unit
	Burton S. Mullins	2834
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu GHTS. This application is s	this application. If not included
1. This communication is responsive to <u>amendment filed 2-24</u>	4 -03.	
2. The allowed claim(s) is/are <u>1-3,5-20,22-33 and 35-42</u> .		
3. The drawings filed on 05 October 2001 are accepted by the		
 4. ☐ Acknowledgment is made of a claim for foreign priority und a) ☐ All b) ☐ Some* c) ☐ None of the: 	ler 35 U.S.C. § 119(a)-(d) or	(f).
 Certified copies of the priority documents have 	been received.	
Certified copies of the priority documents have		
Copies of the certified copies of the priority doc	cuments have been received	in this national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
5. Acknowledgment is made of a claim for domestic priority un		
 (a) The translation of the foreign language provisional application Acknowledgment is made of a claim for domestic priority units 		
o. E. Hamowoogment is made of a claim for domestic priority di	ider 55 0.5.0. 99 120 and/o	1 121.
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of t	this communication to file a his application. THIS THRI	reply complying with the requirements noted EE-MONTH PERIOD IS NOT EXTENDABLE
7. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which gives reason	itted. Note the attached EXA on(s) why the oath or declar	MINER'S AMENDMENT or NOTICE OF ation is deficient.
 8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No 	on's Patent Drawing Review	ı (PTO-948) attached
(b) including changes required by the proposed drawing co	orrection filed, which	n has been approved by the Examiner.
(c) including changes required by the attached Examiner's		
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet.	84(c)) should be written on the	e drawings in the front (not the back) of
9. ☐ DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT FOR TH	it of BIOLOGICAL MATE HE DEPOSIT OF BIOLOGIC	RIAL must be submitted. Note the AL MATERIAL.
Attachment(s)		
Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) Notice of Draftperson's Patent Drawing Review (PTO-948) Notice of Draftperson's Patent Drawing Review (PTO-948) Examiner's Comment Regarding Requirement for Deposit	4☐ Interview 6☐ Examiner 8☑ Examiner	Informal Patent Application (PTO-152) Summary (PTO-413), Paper No 's Amendment/Comment 's Statement of Reasons for Allowance
of Biological Material	9 <u></u> Other	•

Application/Control Number: 09/892,558

Art Unit: 2834

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: The prior art, in particular the combination of Markle, Galburt and Ioi do not teach the claimed method and apparatus for controlling planar motors including, inter alia, a control scheme using the sum of determined currents and current adjustments to control the motor, wherein the current adjustments (or resultant error) compensate for resultant torques about three axes such that the torques become desired values while the forces about the axes remain the same. Markle does not elaborate details of his servo structure such as a determination of current adjustments. Neither does Markle teach determination of resultant torques of the stage. Neither Galburt nor Ioi remedy Markle since in Galburt a comparision is made between sensed position and computer commanded position and feeding the resultant error back to voice coil actuators; while in Ioi, detected torque and force are balanced with gravitational force of the moving part. Neither Galburt or Ioi specify the steps by which applicant's resultant current adjustments are performed such that the torques become desired values while the forces about the axes remain the same.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Burton S. Mullins whose telephone number is 305-7063. The examiner can normally be reached on Monday-Friday, 9 am to 5 pm. If attempts to reach the

examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are 305-1341 for regular communications and 305-1341 for After Final communications. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 308-0956.

Burton S. Mullins Primary Examiner Art Unit 2834

bsm May 4, 2003